**PhD position on the interface of organic and polymer chemistry available in the Soft Matter Materials laboratory located at Queensland University of Technology (Brisbane, Australia)**

**You**
Applicants should have an M.Sc. degree in chemistry and a strong background in organic chemistry. Experience in polymer synthesis, characterization techniques and monomer design would be valuable. Other desirable skillsets would include a background in peptide synthesis or catalysis, although these are no requirements, if you are ambitious to learn. We are looking for applicants that are highly motivated, demonstrate initiative, and look forward to working in a highly collaborative, multicultural team.

**Your Project**
Your project aims to set the foundation of a class of intelligent polymers, whose structure and function – including catalytic activity – can be readily programmed. In contrast to well-established radical polymerization techniques leading to all-carbon based backbones, your research will develop technologies to incorporate short peptides into the backbones of synthetic polymers. The synthetically adjustable amino acid sequence of the main chain embedded peptides will translate into the structure and function of the modular polymer. Based on this platform technology, you will seize combinations of backbone embedded short peptide sequences and the toolbox of synthetic comonomers to generate catalytically active single chain nanoreactors.

**Your Research Environment**
The successful applicant will work in a world renowned research environment consisting of multiple academics, postdoctoral fellows, and PhD students. QUT has been named one of the fastest rising universities in the world, and top in Australia, for scientific research in this year’s Nature Index of high-quality research outputs.

To apply for the position, please send a cover letter, your CV and transcript of records to Dr. Hendrik Frisch (H.Frisch@qut.edu.au). More information on the Soft Matter Materials laboratory can be found here (http://www.macroarc.de).